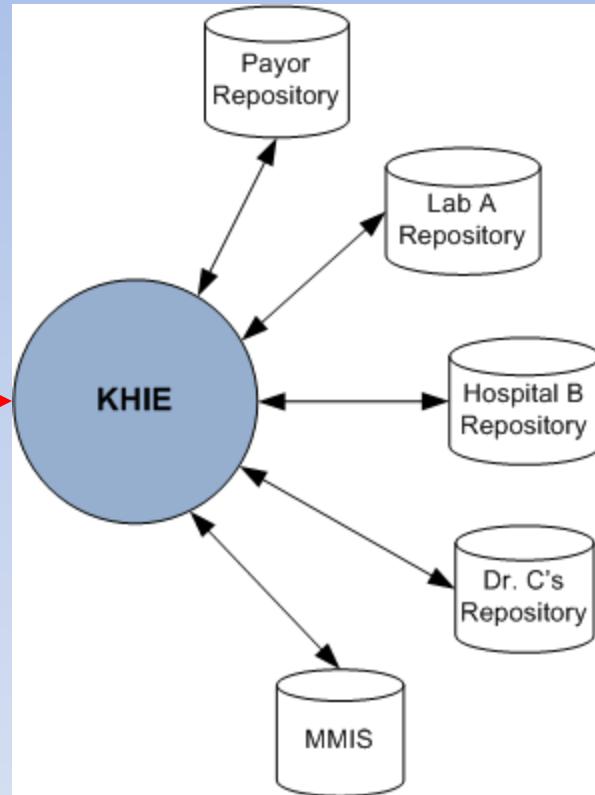


The KHIE gathers information about the patient...

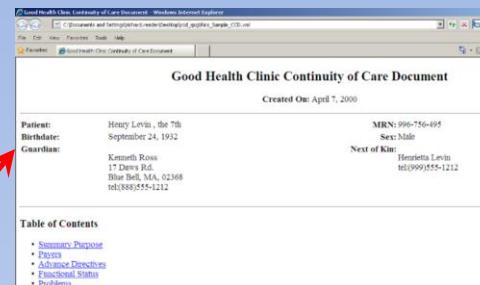
A provider asks the KHIE about a patient with an HL7 standard message...

```
MSH|^~\&|TBD|Snuffy^12332112399^J  
|TBD|ACS|20071220105623||QRY^T1  
2|MSG001|P|2.4  
  
QRD|20080108110417|D|||||1^ZO|0123  
45678^DOE^JANE^M|OTH|48769-  
4^Continuity of Care Panel^LN^CCD||T
```



Participants may view the CCD:

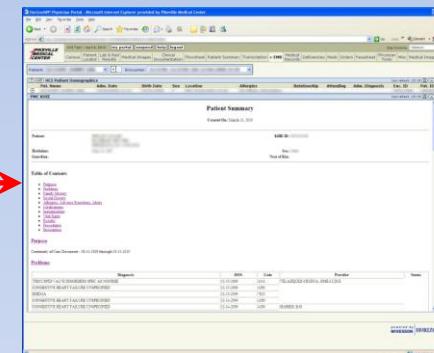
in an internet browser...



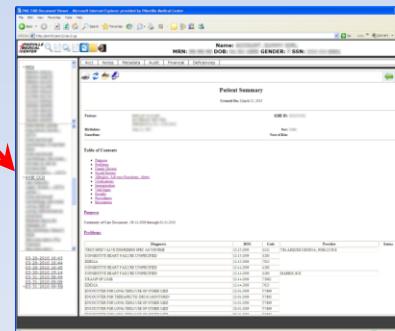
The KHIE returns patient information
in a CCD – a standard XML data file...

```
<typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
<templateId root="2.16.840.1.113883.10.20.1" />
<!-- CCD v1.0 Templates Root -->
<id root="db734647-fc99-424c-a864-7e3cda82e703" />
<code code="34133-9" codeSystem="2.16.840.1.113883.6.1" displayName="Good Health Clinic Continuity of Care Document"></title>
<effectiveTime value="20000407130000+0500" />
<confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
<languageCode code="en-US" />
<recordTarget>
- <patientRole>
  <id extension="996-756-495" root="2.16.840.1.113883.19.5" />
- <patient>
  - <name>
    <given>Henry</given>
    <family>Levin</family>
    <suffix>the 7th</suffix>
  </name>
```

in an EMR/EHR...



in a custom application...



The KHIE returns patient information in a CCD – a standard XML data file...



The screenshot shows a Microsoft Internet Explorer window displaying the XML code for a Clinical Document (CCD). The XML is color-coded for syntax highlighting, with red for namespaces and URLs, blue for element and attribute names, and black for values. The XML structure includes root elements like ClinicalDocument, ClinicalDocumentHeader, RecordTarget, PatientRole, Patient, ProviderOrganization, and Author.

```
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 C:\DOCUMENTS\1\RICKGE\1\MYDOCU\1\AlsChulerAssociates\projects\hl7\CDA_R2_NormativeWebEdition2005\infrastructure\cda\CDA.xsd">
  <!--
  ****
  CDA Header
  ****
  -->
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="2.16.840.1.113883.10.20.1" />
  <!-- CCD v1.0 Templates Root -->
  <id root="db734647-fc99-424c-a864-7e3cda82e703" />
  <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" displayName="Summarization of episode note" />
  <title>Good Health Clinic Continuity of Care Document</title>
  <effectiveTime value="20000407130000+0500" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
  <languageCode code="en-US" />
  <recordTarget>
    <patientRole>
      <id extension="996-756-495" root="2.16.840.1.113883.19.5" />
      <patient>
        <name>
          <given>Henry</given>
          <family>Levin</family>
          <suffix>the 7th</suffix>
        </name>
        <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1" />
        <birthTime value="19320924" />
      </patient>
      <providerOrganization>
        <id root="2.16.840.1.113883.19.5" />
        <name>Good Health Clinic</name>
      </providerOrganization>
    </patientRole>
  </recordTarget>
  <author>
    <time value="20000407130000+0500" />
    <assignedAuthor>
      <id root="20cf14fb-b65c-4c8c-a54d-b0cca834c18c" />
      <assignedPerson>
        <name>
          <prefix>Dr.</prefix>
          <given>Robert</given>
        </name>
      </assignedPerson>
    </assignedAuthor>
  </author>
</ClinicalDocument>
```

View the CCD in an internet browser...

Good Health Clinic Continuity of Care Document - Windows Internet Explorer
C:\Documents and Settings\richard.reeder\Desktop\ccd_qsg\Rics_Sample_CCD.xml

File Edit View Favorites Tools Help

Favorites Good Health Clinic Continuity of Care Document

Good Health Clinic Continuity of Care Document

Created On: April 7, 2000

Patient: Henry Levin , the 7th **MRN:** 996-756-495
Birthdate: September 24, 1932 **Sex:** Male
Guardian: Kenneth Ross
17 Daws Rd.
Blue Bell, MA, 02368
tel:(888)555-1212 **Next of Kin:** Henrietta Levin
tel:(999)555-1212

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- [Medications](#)
- [Medical Equipment](#)
- [Immunizations](#)
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- [Results](#)
- [Procedures](#)
- [Encounters](#)
- [Plan](#)

[Summary Purpose](#)

Transfer of care

[Pavers](#)

Done My Computer 100% /

View the CCD within an Electronic Medical Record (EMR)...

HorizonWP Physician Portal - Microsoft Internet Explorer provided by Pikeville Medical Center

File Edit View Favorites Tools Help

Back Forward Stop Refresh Favorites Links Go Convert Select

Address: HCI Test :: April 8, 2010 my portal suspend help logout Site Controls <Select>

Pikeville Medical Center

Census Patient Locator Lab & Rad Results Medical Images Clinical Documentation Flowsheet Patient Summary Transcription EMR Medical Records Deficiencies Meds Orders Facesheet Physician Tools Misc Medical Images 2

Patient: [REDACTED] Encounter: [REDACTED]

HCI Patient Demographics last refresh: 15:18 (5) (4)

Pat. Name	Adm. Date	Birth Date	Sex	Location	Allergies	Relationship	Attending	Adm. Diagnosis	Enc. ID	Pat. ID
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]						

PMC KHIE last refresh: 15:18 (5) (4)

Patient Summary

Created On: March 31, 2010

Patient: [REDACTED] KHE ID: [REDACTED]

Birthdate: [REDACTED] Sex: [REDACTED]

Guardian: [REDACTED] Next of Kin: [REDACTED]

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Purpose

Continuity of Care Document - 08-14-2008 through 03-31-2010

Problems

Diagnosis	DOS	Code	Provider	Status
TRICUSPID VALVE DISORDERS SPEC AS NONRHE	12-15-2009	4242	VELAZQUEZ-CECENA, JOSE-LUIS E	
CONGESTIVE HEART FAILURE UNSPECIFIED	12-15-2009	4280		
EDEMA	12-15-2009	7823		
CONGESTIVE HEART FAILURE UNSPECIFIED	12-14-2009	4280		
CONGESTIVE HEART FAILURE UNSPECIFIED	12-14-2009	4280	HARRIS, B H	

powered by MCKESSON HORIZON

Local intranet

View the CCD in a custom application...

PMC EMR Document Viewer - Microsoft Internet Explorer provided by Pikeville Medical Center

File Edit View Favorites Tools Help

Back Favorites Address http://emrh01/emr2/view3.cgi Go Links Convert Select

Name: [REDACTED]
MRN: [REDACTED] DOB: [REDACTED] GENDER: [REDACTED] SSN: [REDACTED]

Acct Notes Metadata Audit Financial Deficiencies

→ MRN [REDACTED]
→ KHIE CCD [REDACTED]
03-26-2010 16:43
03-26-2010 16:44
03-26-2010 16:45
03-30-2010 19:14
03-31-2010 08:49
03-31-2010 09:09
→ 03-31-2010 09:55

Patient Summary
Created On: March 31, 2010

Patient: [REDACTED] KHIE ID: [REDACTED]
Birthdate: [REDACTED] Sex: [REDACTED]
Guardian: [REDACTED] Next of Kin: [REDACTED]

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Purpose
Continuity of Care Document - 08-14-2008 through 03-31-2010

Problems

Diagnosis	DOS	Code	Provider	Status
TRICUSPID VALVE DISORDERS SPEC AS NONRHE	12-15-2009	4242	VELAZQUEZ-CECENA, JOSE-LUIS E	
CONGESTIVE HEART FAILURE UNSPECIFIED	12-15-2009	4280		
EDEMA	12-15-2009	7823		
CONGESTIVE HEART FAILURE UNSPECIFIED	12-14-2009	4280		
CONGESTIVE HEART FAILURE UNSPECIFIED	12-14-2009	4280	HARRIS, B H	
CRAMP OF LIMB	12-14-2009	72982		
EDEMA	12-14-2009	7823		
ENCOUNTER FOR LONG-TERM USE OF OTHER MED	12-01-2009	V5869		
ENCOUNTER FOR THERAPEUTIC DRUG MONITORIN	12-01-2009	V5883		
ENCOUNTER FOR LONG-TERM USE OF OTHER MED	11-01-2009	V5869		
ENCOUNTER FOR LONG-TERM USE OF OTHER MED	10-01-2009	V5869		
ENCOUNTER FOR LONG-TERM USE OF OTHER MED	00-01-2000	V5860		

For more information...

<http://chfs.ky.gov/os/goehi/khie.htm>

The screenshot shows the official website for the Kentucky Health Information Exchange (KHIE). The header includes the Kentucky.gov logo, navigation links for KY Agencies and KY Services, a search bar, and a dropdown menu set to CHFS with a 'Go' button. The main content area features the title 'The Kentucky Health Information Exchange' and a detailed description of KHIE's mission and functionality. A sidebar on the left lists various cabinet agencies. A footer at the bottom contains a link to the KHIE homepage.

KY Agencies | KY Services Search CHFS Go

KENTUCKY
CABINET FOR HEALTH AND FAMILY SERVICES

OFFICE OF THE SECRETARY

About CHFS | Contact Us | Forms and Documents | Información en Español
Home > Office of the Secretary > Governors Office of Electronic Health Information > **Kentucky Health Information Exchange**

Kentucky UNBRIDLED SPIRIT

Administrative and Technology Services

Communications and Administrative Review

Governors Office of Electronic Health Information

Kentucky Health Information Exchange

Kentucky Health Information Exchange Coordinating Council

Human Resource Management

Inspector General

Legal Services

Ombudsman

Policy and Budget

More Information about KHIE

[Overview and development of the Kentucky Health Information Exchange](#)

[Frequently Asked Questions about the Kentucky Health Information Exchange](#)

[Frequently Asked Questions about ARRA and Health Information Exchange, including meaningful use, certification of electronic medical records systems and Medicare and Medicaid provider incentives](#)

[Frequently Asked Questions: Information for Consumers about electronic health records and health information exchange](#)

Kentucky Health Information Exchange - KHIE